

# Memorandum

RECEIVED  
DIVISION OF OIL AND GAS  
SACRAMENTO

: Bob Reid  
Sacramento

OCT 17 2 08 PM '83

Date : October 14, 1983

Subject: Aquifer Exemption

From : Department of Conservation—  
Division of Oil and Gas

Place: Santa Maria

Phillips Petroleum Company has applied for injection into the "D" sand in the McCool Ranch field.

The sand is a non-hydrocarbon-producing aquifer which has a TDS level above 3000 PPM. The aquifer needs to be exempted by EPA before we can approve this project.

Enclosed is an Aquifer Exemption Summary Sheet and a map showing the location of the field. If additional data is needed, please contact the undersigned.



Adelbert J. Koller  
Associate Oil and Gas Engineer

AJK:dv  
Enclosure

AQUIFER EXEMPTION  
SUMMARY SHEET

Date application received in Region: \_\_\_\_\_

Date application sent the Headquarters: \_\_\_\_\_

Date action needed: \_\_\_\_\_

APPLICANT: Phillips Petroleum Company

HEARING DATE: \_\_\_\_\_

I.D. NUMBER: \_\_\_\_\_

EXEMPTION DESCRIPTION (Township, Range, Section, Quarter section and  
of affected area):

W 1/2, Sec. 14, T.22S, R.10E, M.D.B&M

FIELD: McCool Ranch

AQUIFER TO BE EXEMPTED: "D" sand (depth to top of zone varies from 1825' - 2050')

JUSTIFICATION FOR EXEMPTION:

(X) Aquifer is not a source of drinking water and will not serve as a source  
of drinking water in the future because it:

(x) Has a TDS level above 3,000

( ) Is hydrocarbon bearing

( ) Is too deep

( ) Is a Class III well subject to subsidence

( ) Is too contaminated (name contaminant(s)):

( ) Other: \_\_\_\_\_

PURPOSE OF INJECTION: Disposal of water produced from Phillips Petroleum Co. oil  
wells in the McCool Ranch field.

INJECTED WATER QUALITY: 7020 PPM TDS

INJECTION WATER SOURCE: Produced oil-  
field water

FORMATION WATER QUALITY: 7520 PPM TDS

APPLICANT: Phillips Petroleum Company

HEARING DATE: \_\_\_\_\_

I.D. NUMBER: \_\_\_\_\_

OIL OR MINERAL PRODUCTION HISTORY: Phillips started production in October of 1981 on "Brinan A" 1 and March 1982 on "Brinan A" 4, the only two commercial wells on the lease. Oil production was 66 bbls in 1981, 4493 bbls in 1982 & 5632 bbls in the first 6 months of 1983. Waste water production in the first 6 months of 1983 has increased to 38,846 bbl.

ACTIVE INJECTION WELLS INJECTING INTO SAME FORMATION:

Field	Location	Injection Interval	Injection Source	Total Depth
McCool Ranch	22-22S-10E, "Sinclair" 3, 1650'-2169'	M.D.B&M ("D" & Lombardi)	Produced oilfield water	2174
San Ardo	7-23S-11E, "Hamby" 817-7, 1740-2465'	M.D.B&M (S.Marg., "D" & "E" sd & Lombardi)	Produced oilfield water	2654
San Ardo	6-23S-11E, "Orradre" 801-6, 1620-2340'	M.D.B&M (S.Marg., "D" & "E" sd & Lombardi)	Produced oilfield water	2569
San Ardo	6-23S-11E, "Orradre" 803-6, 1640-2380'	M.D.B&M (S.Marg., "D" & "E" sd & Lombardi)	Produced oilfield water	2594

WATER USE IN AREA: Ground water is used in the area for irrigation, watering livestock and drinking water for farm and small town population. The base of strata that is generally used for freshwater is above 600'.

REMARKS: This non-hydrocarbon-producing aquifer was being used for injection of oil-field waste water as early as 1979. When the Division of Oil and Gas applied for primacy, this aquifer was inadvertently overlooked in Table 1, Appendix B for McCool Ranch field. The "D" sand extends throughout the field and into the adjacent San Ardo field and beyond. The attached map shows the boundary of the McCool Ranch field. The "D" sand did receive an exemption in the adjacent San Ardo field.

# SAN ARDO OIL FIELD

## Monterey County

Dist 3

